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**From:** Hermann, Karl  
**Sent:** Tue 8/11/2015 1:06:39 PM  
**Subject:** Colorado WQS and Segments for the Animas River and Cement Creek  
34\_2015(06).pdf  
34\_2015(06)tables.pdf  
gold\_king\_spill\_sampling\_sites.xls  
gold\_king\_sample\_sites\_CO\_segments.pdf

Wendy,

Attached are several files. The Colorado water quality standards for the Animas River and Cement Creek are in two parts in Colorado Regulation 34. The first part is the Colorado Regulation 34 Table Value Standards (TVS) which are found on pages 5-9 (PDF pages 6-10) in the attached file 34\_2015(06).pdf. The Regulation 34 effective date was 6/30/2015. These are the basin default numbers. In the attached file 34\_2015(06)tables.pdf, you'll see the segment specific values on PDF pages 9 and 10 (document pages 18 and 19) for the Animas and Florida Rivers Basin (COSJAF). We are assessing segments 3a, 4a, 4b, 5a, and 7. The tables either reference TVS or have a segment-specific WQS value for a parameter. Maggie Pierce can assist you with any needed interpretation.

I have also attached a spreadsheet with our sampling sites and their CO WQS that they represent. I have also attached a graphic of the segments. Note that my read of the A68 sampling site location is on the Animas River upstream of the confluence with Cement Creek (segment COSJAF03a) which is unaffected by the spill. We should double check that location. Also note that we don't have any sampling site on segment COSJAF03b, downstream of Silverton.

I forwarded you earlier, Robert Hillegas's (CO WQCD) spreadsheet with macros to manage hardness-based equations.

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